DOCUMENT RESUME

ED 076 124

HE 004 075

PRINTED IN USA

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TITLE

An Appraisal of the Quality of Education Received by the 1967 Graduates at the Six Colleges and Universities Under the Kansas Board of Regents. Planning Report 5.

Planning

INSTITUTION SPONS AGENCY

Kansas State Master Planning Commission, Topeka. Bureau of Higher Education (DHEW/OE), Washington,

D.C. Div. of Academic Facilities.

PUB DATE

Sep 72

EDRS PRICE DESCRIPTORS

MF-\$0.65 HC-\$3.29
*College Graduates: Educational Impresser

*College Graduates; Educational Improvement;

Educational Needs; *Educational Quality; Evaluation;

Evaluation Criteria; *Higher Education;

Questionnaires; Research; Research Projects; *Student

Evaluation; *Teaching Quality

IDENTIFIERS

*Kansas

ABSTRACT

This study summarizes the responses to a 52-item questionnaire of the 1967 baccalaureate graduates who attended the 6 Kansas colleges and universities under the Board of Regents. The questionnaire was designed to appraise the quality of education received by these graduates. Results indicated that 1967 graduates had more positive than negative reactions to the education and training they received during the time they had attended these institutions. The 6 state colleges and universities seemed to have done a better job with the 1972 seniors than with the 1967 graduates; however, 5 years have elapsed since many graduates have had formal contact with schools. Tables, additional findings, and other responses to the questionnaire items are included. A related document is HE 004 308. (MJM)

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EDIC

AN APPRAISAL OF THE QUALITY OF EDUCATION RECEIVED

BY THE 1967 GRADUATES

AT THE SIX COLLEGES AND UNIVERSITIES

UNDER THE KANSAS BOARD OF REGENTS

MASTER PLANNING COMMISSION

Planning Report Number 5 September, 1972





MASTUR PLANNING COMMISSION

The Master Planning Commission on Kansas education created by the 1970 Kansas Legislature, met for the first time in April, 1970, in Topeka. Its mission is to prepare the first phase of an educational master plan for Kansas. Such master plan is to outline the goals and objectives of education in Kansas and the first phase shall consist of two parts:

Middle level public education—the area between the elementary—secondary school system and the four—year college and university, and

Private education at two-year and four-year colleges and universities.

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This project supported in part by the State Education Commission with funds from the Higher Education Facilities Comprehensive Planning Grant program administered by the Division of Academic Facilities of the U.S. Office of Education.

PRIFACE

Needs, Aspirations, and Accomplishments: Essential Ingredients in State Planning for Postsecondary Education) summarized eleven surveys. This study is an extension of that report and summarizes the responses of the 1967 graduates (baccalaureate), who attended the six Kansas colleges and universities under the Board of Regents, to a fifty-two item questionnaire.

The present study reported herein was planned and implemented by Dr. Kenneth E. Anderson, Master Planning Commission Executive Director. He was assisted by Dr. Jerry Hutchison, John P. Hanna, and Dr. Hernan D. Acero. Dr. Donald P. Hoyt of Kansas State University made valuable suggestions relative to the Inquiry employed in the study.

Questions concerning detailed data not reported herein should be directed to Dr. Anderson.

Wilbur T. Billington, Chairman Master Planning Commission



I: Introduction

In educational planning, the needs and aspirations of the students that the educational system is to serve are of major importance. In creating the Kansas Master Planning Commission, the State Legislature recognized this factor by specifically charging the Commission with the task of projecting "... the educational needs of Kansas students ... in this middle educational level through the mid 1980's." This task was completed and the results appeared in Planning Report Number 3 published in March of 1972 under the title of: Student Needs, Aspirations, and Accomplishments: Essential Ingredients in State Planning for Postsecondary Education.

The original charge to the Master Planning Commission did not include consideration of the six state colleges and universities under the Board of Regents. In April of 1972, the charge was enlarged to include these six institutions. In viewing the previous survey studies completed, it was judged that one ingredient was missing, namely: an appraisal by the students in these colleges and universities of the education they had received. As a consequence, two survey instruments were developed:

1. INQUIRY TO 1972 SENIORS ATTENDING THE SIX KANSAS COLLEGES AND UNIVERSITIES UNDER THE BOARD OF REGENTS.2



¹ Kansas Legislature, Senate Concurrent Resolution Number 40, Kansas State Printing Office, 1970.

²Master Planning Commission, Planning Report Number 4, August, 1972. 30 pp.

2. INQUIRY TO THE 1967 GRADUATES OF THE SIX KANSAS COLLEGES AND UNIVERSITIES UNDER THE BOARD OF REGENTS.

The second inquiry was mailed out to a twenty percent random sample during June of 1972. Table 1 shows the percentage of returns from the six colleges and universities.

TABLE 1

NUMBER AND PERCENTAGE OF
GRADUATE QUESTIONNAIRES RETURNED

College or University		Number Mailed	Number Returned	Percentage Returned
1.	Fort Hays Kansas State College, Hays	125	72	57.60
2.	Kansas State College of Pittsburg, Pittsburg	182	83	45.60
3 .	Kansas State Teachers College, Emporia	94	50	53 .1 9
4.	Kansas State University, Manhattan	443	240	<i>5</i> 4.18
5.	University of Kansas, Lawrence	406	217	53.45
6.	Wichita State University, Wichita	138	: 76 .	55.07
	Total	1388	738	53.17

II: The Results

Table 2 shows the responses of the 1967 graduates (baccalaureate) for the six colleges and universities as a group to the fifty-two items of the Inquiry. Separate compilations were made for each school and these were made available to the: (1) Master



Planning Commission, (2) Board of Regents, and (3) Presidents and Chancellor of the six institutions. The latter group was informed that each school was free to use the results in whatever way desired with the faculty, alumni, and townspeople.

Although an examination of the results for each item in Table 2 is worthwhile, the following statements are intended to highlight the responses of the graduates.

- 1. About 79 percent graduated from a Kansas high school.
- 2. About 44 percent were in high school graduating classes of 100 students or less and about 19 percent were in classes of 500 or more students.
- 3. About 63 percent of the graduates received their most recent formal educational experience, prior to their enrollment in one of the six colleges and universities, at a high school.

 About 14 percent received this experience at a junior college and about 19 percent at a four-year college or university.
- 4. About 12 percent had attended a Kansas Community junior college before entering one of the six state colleges and universities. Of this percentage, about 48 percent had received the associate of arts or a similar two-year degree.
- 5. About 50 percent of those who had attended a junior college regarded their preparation for work in these six state schools as "very good" or "superior," whereas only 11 percent regarded their preparation as "very inferior" or "inferior."
- 6. About 26 percent of the graduates indicated that their fathers had one or more college degrees and 19 percent reported the same for their mothers.



- 7. About 32 percent of the graduates estimated their yearly income to be in the bracket ranging from \$10,000 to \$15,000.

 About 45 percent reported their yearly income to be below \$10,000 and another 19 percent reported it to be above \$15,000.
- 8. The graduates were asked to estimate their grade averages. The results were as follows: (1) about 11 percent indicated about an "A" average, (2) about 62 percent indicated about a "B" average, and (3) about 26 percent indicated about a "C" average.
- 9. The graduates were asked to rate their undergraduate education in terms of their present occupations. About 34 percent used the term "very adequate," while only about 8 percent used the term "inadequate."
- 10. About 84 percent of the graduates felt that their undergraduate education provided them with sufficient opportunities for developing cultural interests and knowledge.
- 11. About 86 percent of the graduates indicated that they had had an inspirational teacher who was a recognized teacher of excellence in his or her field.
- 12. The graduates were asked to rate their colleges and universities on a five-point scale for four items. The first percentage following each item indicates "very good" or "superior" and the second percentage indicates "very inferior" or "inferior." The percentages for the seven items were:
 - A. Major area of study in terms of depth of study available: 51 percent and 9 percent.
 - B. Major area of study in terms of quality of education offered: 49 percent and 9 percent.

- C. Extracurricular life offered by the institution: 48 percent and 8 percent.
- D. General education: 49 percent and 6 percent.
- 13. About 39 percent of the graduates rated the library holdings of the colleges and universities as "very adequate" for study in their major while about 16 percent used the rating "inadequate."
- 14. About 43 percent of the graduates rated the library holdings as "very adequate" for study in general education while 10 percent used the rating "inadequate."
- 15. About 80 percent of the graduates indicated they were "more satisfied than dissatisfied" or "thoroughly satisfied" with their achievement in their colleges and universities while about 20 percent were "more dissatisfied than satisfied" or "thoroughly dissatisfied."
- 16. The graduates were asked to describe the preparation received at the six colleges and universities relative to seventeen items concerned with competencies, skills, and understanding using a three-point scale. The first percentage following an item is for the percentage of students using the term "strong" and the second percentage is for the term "weak." The percentages for the items were:
 - A. A broad experience in the humanities: 20 percent and 24 percent.
 - B. Competence in the arts of communication: 17 percent and 22 percent.
 - C. Introduction to natural science: 29 percent and 13 percent.

- D. Introduction to social science: 21 percent and 13 percent.
- E. Training in laboratory technique: 22 percent and 27 percent.
- F. Ability to understand and use mathematical concepts: 21 percent and 24 percent.
- G. Awareness of and appreciation for the aesthetic aspects of life: 20 percent and 20 percent.
- H. Motivation and ability to work independently: 39 percent and 11 percent.
- I. Total development as an individual: 20 percent and 12 percent.
- J. Understanding the role that the sciences play in creating and solving human problems: 19 percent and 21 percent.
- K. Understanding the role that the social sciences play in creating and solving human problems: 20 percent and 22 percent.
- L. Gaining a theoretical and factual background as preparation for the world of work: 19 percent and 26 percent.
- M. Developing skills and competencies which are needed to perform specific jobs: 23 percent and 26 percent.
- N. Developing a sense of professional identification in some professional or occupational group: 31 percent and 22 percent.
- 0. Undorstanding yourself: 22 percent and 18 percent.
- P. Developing interpersonal competencies: 18 percent and 14 percent.
- Q. Developing a personal sense of responsibility for reducing social problems or injustices: 13 percent and 28 percent.
- 17. About 50 percent of the graduates indicated they continued their education after graduation in another college or university; and of these, about 86 percent did so at a public college or



university. About 79 percent pursued graduate level work and
12 percent were in professional schools (medicine, law, dentistry,
and etc.). Of those pursuing graduate or professional level work,
about 47 percent rated their undergraduate work as "very good"
or "superior" as contrasted to about 9 percent who used the terms
"inferior" and "very inferior."

- 18. Since graduation, about 23 percent have obtained a Master's degree, while about 4 percent have obtained a degree higher than the Master's degree.
- 19. The graduates were asked to respond to three questions pertaining to financial support for the colleges and universities. Response to the three items were:
 - A. About 80 percent of the seniors felt the State of Kansas should provide more state aid for the colleges and universities.
 - B. About 62 percent of those replying "yes" to the previous question felt that the aid should be given by some formula which takes into account the propertion of Kansans enrolled in these institutions.
 - C. About 80 percent of the seniors felt that the State of Kansas should provide special funds to reduce student fees for Kansas residents who can demonstrate financial need.
- 20. About 57 percent of the graduates secured a position outside of Kansas.
- 21. About 54 percent of the graduates indicated that they have been involved in community service, local government, or



other kinds of civic leadership or responsibilities in the communities in which they live.

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- 22. About 90 percent indicated they have continued active learning on an independent basis.
- 23. About 88 percent said they felt the need to achieve as much professional excellence as their talents will permit.
- 24. About 40 percent indicated they have become involved in individual or group efforts to correct social injustices.

TABLE 2
RESPONSES OF THE 1967 GRADUATES TO 52 ITEMS

Que	estionnaire Item	N	. %
1.	What is your sex?		
	1 - Male	412	55.8
	2 - Female	326_	44.2
2.	The college or university I graduated from was:		
	7 - Fort Hays Kansas State College (Hays)	72	9.8
•	2 - Kansas State College of Pittsburg	_	
	(Pittsburg)	83	11.2
	3 - Kansas State Teachers College (Emporia)	50	6.8
	4 - Kansas State University (Manhattan) 5 - University of Kansas (Lawrence)	240 217	32.5
	6 - Wichita State University (Wichita)	76	29.4 10.3
3•	Did you graduate from a Kansas high school?	~	50 5
	1 - Yes 2 - No	579	78.7
	2 - NO	157	21.3
4.	Regardless of your answer to question 3, how		
	many students were in your high school		-
	graduating class? 1 - Under 100	222	h2 0
	1 - Under 100 2 - 100 - 199	322 109	43.9
	3 - 200 - 499	161	14.9 21.9
	4 - 500 - 999	111	15.1
	5 - 1,000 and over	31	4.2
5.	Where did you receive your most recent formal		
	educational experience prior to your enroll-		
•	ment in the institution which granted your		
•	undergraduate degree?	-	
-	1 - High school	466	63.3
	2 - A junior college	106	14.4
	3 - A four-year college or university	142	19.3
	4 - Some other training school	9	1.2
	5 - Military training	13	1.8
6.	Did you attend a Kansas Community Junior College		
	before entering the college from which you		•
	graduated?	87	11.8
	2 - No	648	87.9
			
7•	If your answer to question 6 was yes, did you receive an associate of arts or similar		
	two-year degree?		
		63	48.1
	1 - Yes	01	до. і



Ques	stionnaire Item	N	Ç
8.	If you attended a junior college, how would you rate the educational opportunities it offered in regard to preparation for work at the college from which you graduated?	*	
	1 - Very inferior 2 - Inferior	15	0.7 10.9
	3 - Good	53	38.7
	4 - Very good 5 - Superior	15 53 52 16	38.0 11.7
9.	What is the highest level of formal education		
	attained by your father?	4 22	47.0
	1 - Junior high or less2 - Some high school	132. 74	17.9 10.0
	3 - High school graduate	194 194	26.3
•	4 - Some college	149	20.2
	5 - College degree:	1 04	14.1
	6 - Postgraduate degree	85	11.5
10.	What is the highest level of formal education	_	
•	attained by your mother? 1 - Junior high or less	82	11.1
	2 - Some high school	55	7-5
-	3 - High school graduate	271	. 36.7
	4 - Some college	188	25.5
	5 - College degree	121;	16.8
	6 - Postgraduate degree	18	2.4
11.	income? (Consider annual income from all		
	sources_before_taxes.)		
•,	1 - Under \$6,000	7 2	10.1
•	2 - \$ 0,000 - \$ 7,999 3 - \$ 8 000 - \$ 0 000	122 125	17.0 17.5
	2 - \$ 6,000 - \$ 7,999 3 - \$ 8,000 - \$ 9,999 4 - \$10,000 - \$14,999 5 - \$15,000 - \$19,999 6 - \$20,000 - \$24,999	. 226	31.6
	5 - \$15,000 - \$19,999	100	14.0
		19	2 .7
	7 - \$25,000 - \$29,999	7	1.0
	8 - \$30,000 or more	8	1.1
	9 - I consider this information to be confidential	37	5.2

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TABLE 2 (continued)

Ques	tionnairo Item	N	· %.
12.	What was your average grade in college?		
	1 - A or A+	22	3.0
	2 - A-	62	8.4
	3 - B+	141	19.2
	4 - B 5 - B- 6 - C+	150	20.4
	5 - B- 6 - C+	162	22.0
		121	16.4
	7 - C 8 - D	70	9.5
	9 - I consider this information to be	7	0.1
	confidential	7	1.0
13.	In terms of your present occupation, how	-	
	would you rate the undergraduate education	-	
	you received at the college or university		
	from which you graduated?		
	1 - Very adequate	249	34.2
	2 - Adequate	419	57.6
	3 - Inadequate	60	8.2
14.	Do you feel that your undergraduate college	•	•
	or university provided you with sufficient	*	•
	opportunities for developing cultural		
	interests and knowledge?		
	1 - Yes	618	84.1
	2 - No	117	15.9
15.	Did you have at least one inspirational	•	
	teacher in your undergraduate college or		
	university who was recognized for excellence	-	
-	in his or her field? 1 - Yes		a
	2 - No	627	85.7
Data		105	14.3
usin	your undergraduate college or university on it g the code following each item.	toms 16 t	o 19
16.	Your major area of study in terms of the		
	number of courses offered or depth of	~ .	
	study available.		
	1 - Very inferior	- 8	1.1
	2 - Inferior	58	7.9
	3 - Good	291	39.5
	4 - Vory good	273	37.0
	5 - Superior	101	13.7
	6 - I had too little experience to		
	make a judgment	6	0.8

TABLE 2 (continued)

2 - Inferior	Ques	stionnaire Item	N	7
1 - Very inferior	17.	Your major area of study in terms of the quality of education offered.		
2 - Inferior		1 - Very inferior	· 5	0.7
3 - Good 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 2 0.3 18. Extra-curricular life offered by the institution. 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good 2 - Inferior 5 - Superior 6 - I had too little experience to make a judgment 5 - Superior 6 - I had too little experience to make a judgment 19. General education (breadth of learning as opposed to your major area of concentration or study). 1 - Very inferior 3 - Good 4 - Very good 3 - Good 5 - Superior 6 - I had too little experience to make a judgment 10 - Very inferior 10 - Very inferior 11 - Very inferior 12 - Inferior 13 - Good 14 - Very good 15 - Superior 16 - I had too little experience to make a judgment 17 - Very good 18 - Very good 19 - Very good 10 - Very good 10 - Very good 11 - Very good 11 - Very good 12 - Inferior 13 - Very good 14 - Very good 15 - Superior 16 - I had too little experience to make a judgment 17 - Very good 18 - Very good 19 - Very good 20 - Very good 21 - Very good 22 - Very good 23 - Very good 24 - Very good 25 - Superior 26 - I had too little experience to make a judgment 27 - Very adequate college or university 28 - Very good 29 - Very good 20 - Very good 21 - Very adequate 22 - Adoquate 23 - Adoquate 24 - Adoquate 25 - Adoquate college or university 26 - Study in general education?		2 - Inferior	5 9	8.0
5 - Superior 6 - I had too little experience to make a judgment 18. Extra-curricular life offered by the institution. 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 19. General education (breadth of learning as opposed to your major area of concentration or study). 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good 3 - Good 4 - Very inferior 3 - Good 4 - Very inferior 3 - Good 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 2 - Inferior 3 - Good 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 2 - Inferior 3 - Good 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 12 - Superior 12 - Very adequate 13 - Indequate 288 39.1 2 - Adequate 328 44.6 3 - Inadequate 120 16.3			309	41.9
6 - I had too little experience to make a judgment 2 0.3 18. Extra-curricular life offered by the institution. 1 - Very inferior 6 0.8 2 - Inferior 51 6.9 3 - Good 264 36.0 4 - Very good 268 36.5 5 - Superior 87 11.9 6 - I had too little experience to make a judgment 58 7.9 19. General education (breadth of learning as opposed to your major area of concentration or study). 1 - Very inferior 38 5.2 3 - Good 322 43.7 4 - Very good 322 43.7 5 - Superior 88 11.9 6 - I had too little experience to make a judgment 12 1.6 Answer items 20 and 21 using the code following each item. 20. How would you rate the library holdings in your undergraduate college or university for study in your major? 1 - Very adequate 288 39.1 2 - Adequate 328 44.6 3 - Inadequate 120 16.3				34.6
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3 - Good 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 58 7.9 19. General education (breadth of learning as opposed to your major area of concentration or study). 1 - Very inferior 2 - Inferior 3 0.4 2 - Very good 3 22 43.7 4 - Very good 5 - Superior 6 - I had too little experience to make a judgment 12 1.6 Answer items 20 and 21 using the code following each item. 20. How would you rate the library holdings in your undergraduate college or university for study in your major? 1 - Very adequate 2 - Adequate 3 - Inadequate college or university for study in general education?			51	
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6 - I had too little experience to make a judgment 12 1.6 Answer items 20 and 21 using the code following each item. 20. How would you rate the library holdings in your undergraduate college or university for study in your major? 1 - Very adequate 2 - Adequate 3 - Inadequate 3 - Inadequate 21. How would you rate the library holdings in your undergraduate college or university for study in general education?				43.7
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make a judgment 12 1.6 Answer items 20 and 21 using the code following each item. 20. How would you rate the library holdings in your undergraduate college or university for study in your major? 1 - Very adequate 288 39.1 2 - Adequate 328 44.6 3 - Inadequate 120 16.3 21. How would you rate the library holdings in your undergraduate college or university for study in general education?	•		88	_ <u>11,.9</u> ,
Answer items 20 and 21 using the code following each item. 20. How would you rate the library holdings in your undergraduate college or university for study in your major? 1 - Very adequate 288 39.1 2 - Adequate 3 - Inadequate 3 - Inadequate 3 - Inadequate 21. How would you rate the library holdings in your undergraduate college or university for study in general education?		o - 1 nad too little experience to	40	·
20. How would you rate the library holdings in your undergraduate college or university for study in your major? 1 - Very adequate 2- Adequate 3- Inadequate 3- Inadequate 21. How would you rate the library holdings in your undergraduate college or university for study in general education?				
your undergraduate college or university for study in your major? 1 - Very adequate 2 - Adequate 3 - Inadequate 21. How would you rate the library holdings in your undergraduate college or university for study in general education?	Answ	er items 20 and 21 using the code following ea	ch item.	
for study in your major? 1 - Very adequate 2- Adequate 3- Inadequate 21. How would you rate the library holdings in your undergraduate college or university for study in general education?	20.	How would you rate the library holdings in		
1 - Very adequate 288 39.1 2 - Adequate 328 44.6 3 - Inadequate 120 16.3 21. How would you rate the library holdings in your undergraduate college or university for study in general education?		your undergraduate college or university	•	
2 - Adequate 3 - Inadequate 120 16.3 21. How would you rate the library holdings in your undergraduate college or university for study in general education?		for study in your major?	-00	
21. How would you rate the library holdings in your undergraduate college or university for study in general education?		i - very adequate		
21. How would you rate the library holdings in your undergraduate college or university for study in general education?				
your undergraduate college or university for study in general education?) - Inadedrare	7120	10.3
for study in general education?	21.	How would you rate the library holdings in		
		your undergraduate college or university	•	
		1 - Very adequate	317	
2 - Adoquate 47.1			345	
3 - Inadequate 71 9.7		> - Inadequate	71	9.7

Que	stionnaire Item	N	Z
22.	How satisfied were you with your academic achievement in your undergraduate college or university?		
	1 - Thoroughly dissatisfied	16	2.2
	2 - More dissatisfied than satisfied3 - More satisfied than dissatisfied	133	18.0
	4 - Thoroughly satisfied	423 166	57•3 22•5
Rate	the preparation you received at your undergreersity. Use the code following items 23 to	raduate col	
23.	A broad experience in the humanities.	· .	
	1 - Strong	145	19.7
	2 - Adequate	382	51.8
	3 - Weak 4 - No opinion	177	24.0
<u> </u>		33	4.5
24.	Competence in the arts of communication. 1 - Strong		
	2 - Adequate	124	16.8
	3 - Weak	421 161	57.0
	4 - No opinion	32	21.8 4.3
25.	Introduction to natural science.		4.7
	1 - Strong	215	29.1
	2 - Adequate	380	51.5
	3 - Weak	95	12.9
	4 - No opinion	48	6.5
26.	Introduction to social science.		
	1 - Strong	155	21.0
	2 - Adequate 3 - Weak	441	59.8
	4 - No opinion	99	13.4
27.		42	5.7
<u>-</u> 1•	Training in laboratory technique. 1 - Strong	465	22 1
	2 - Adequate	165 277	22.4
	3 - Weak	201	37.6 27.3
	4 - No opinion	93	12.6
28.	Ability to understand and use mathematical concepts.		
	1 - Strong	153	20.8
	2 - Adoquate	303	41.2
•	3 - Weak	179	24.3
	4 - No opinion	101	13.7

TABLE 2 (continued)

Ques	stionnaire Item	N	8,0
29.	An awareness of and appreciation for the aesthetic aspects of life.		
	1 - Strong	149	20.2
	2 - Adequate 3 - Weak	3 83	52.0
	4 - No opinion	150 54	20.4 7.3
30.	Motivation and ability to work independently.		
	1 - Strong	279	38.5
_	2 - Adequate 3 - Veak	351 81	48.4 11.2
•	4 - No opinion	14	1.9
31.	Total development as an individual.		
	1 - Strong	145	20.1
	2 - Adequate 3 - Weak	469 87	64.9 12.0
	4 - No opinion	22	3.0
32.			
• عر	Understanding the role that sciences play in creating and solving human problems.		
	1 - Strong	140	19.3
	2 - Adoquate	377	52.1
	3 - Weak	150	20.7
	4 - No opinion	57	7.9
3 3•	Understanding the role that social sciences play in creating and solving human problems.		
	1 - Strong	142	19.6
	2 - Adequate	377	52.1
	3 - Weak	1.57	21.7
	4 - No opinion	48	6.6
34.	Gaining a theoretical and factual background as preparation for the world of work.	were appreciated -	*
	1 - Strong	· 110	19.4
	2 - Adequate	3 63	50.2
	3 - Weak	189	26.1
	4 - No opinion	, 31	4.3
35.	Developing skills and competencies which are needed to perform specific jobs.	-	2
	1 - Strong	167	23.1
٠	2 - Adequate	346	47.9
	3 - Weak	1.84	25.5
. *	4 - No opinion	25	3.5

Quo	stionnaire Item	N	%
36.	Developing a sense of professional 'identifi- cation (membership in some professional or occupational group).	· .	
	1 - Strong	227	31.4
	2 - Adequate 3 - Weak	30 0 16 0	41·4 22.1
	4 - No opinion	37	5.1
37.	Understanding yourself (abilities, interests, values, personality characteristics, goals).		
	1:- Strong	161	22.3
	2 - Adequate 3 - Weak	408 133	56.4 18.4
	4 - No opinion	21	2.9
38.	Developing interpersonal competencies.		
	1 - Strong 2 - Adequate	127 448	17.6 62.0
	3 - Weak	103	14.3
	4 - No opinion	44	6.1
39.	Developing a personal sense of responsibility for reducing social problems or injustices.		
•	1 - Strong	95	13.2
\	2 - Adequato	371 203	51.4 28.1
	4 - No opinion	53	7.3
40.	Since receiving your undergraduate degree, did you continue your education in another college or university?		**
	1 - Yes 2 - No	360 360	50.0 50.0
41.	If your answer to question 40 was yes, what type of school did you attend (or are you attending)?		
	1 - Private college or university 2 - Public college or university	51 318	13.8 86.2
42.	If your answer to question 40 was yes, what was the level of work taken (or are taking)?		
	1 - Undergraduate work	.36	9.6
	2 - Graduate work	296	78.7
, .	3 - Professional school (medicine, law, dentistry, etc.)	भिर्द	44 7
	,	44	11.7

Ques	stionnaire Itom	N	%
43.	If your answer to question 42 was "graduate work" or "professional school," how would you rate the preparation you received in your undergraduate college or university? 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good 5 - Superior 1	5 27 150 115 49	1.4 7.8 43.4 33.2 14.2
44.	Since graduating from your college or university, what additional degrees have you received? 1 - None 2 - Another Bacholor's degree 3 - A Master's degree 4 - A Doctor of Philosophy degree or Doctor of Education degree 5 - Bacholor of Law, Doctor of Law, or Doctor of Jurisprudence	469 7 158 16	68.1 1.0 22.9 2.3
	6 - Bacholor of Divinity 7 - Other	0 25	0.0 3.6
45.	Do you feel that the State of Kansas should provide more state aid to support your college or university? 1 - Yes 2 - No	550 144	79.3 20.7
46.	If your answer to question 45 was yes, should aid be given by some formula which takes into account the proportion of Kansans of the total enrolled in your college or university? 1 - Yes 2 - No	338 207	62.0 38.0
47.	Should the State of Kansas provide special funds to reduce student fees for Kansas residents who can demonstrate financial need?		
	1 - Yes 2 - No	567 144	79.7

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TABLE 2 (continued)

Ques	tionnaire Item	N	%
Answ	er items 48 to 52 using the code following	each item.	
48.	After graduation, did you take a position outside the State of Kansas? 1 - Yes 2 - No	417 311	57·3 42·7
49.	Have you been involved in community service, local government, or other kinds of civic leadership or responsibilities in the community in which you live?		ب ۔۔۔۔
	1 - Yes 2 - No	395 337 .	54 • 0 46 • 0
50.	Since graduation, have you continued activ learning on an independent basis?	e	
	1 - Yes . 2 - No	655 76	89.6 10.4
51.	Do you feel a need to achieve as much professional excellence as your talents will permit?		
-	1 - Yes 2 - No	638 91	87.5 12.5
52.	Have you become involved in individual or group efforts to correct social		
	injustices? 1 - Yes 2 - No	290 434	40.1 59.9

III: Comparison of the Responses of the 1972 Seniors and the 1967 Graduates on Identical Items

- Introduction

A number of the items used in the Inquiry for the 1972 seniors were identical to those used in the Inquiry for the 1967 graduates. Table 3 contains the 39 identical questions or items and the percentages of the seniors and graduates responding to the alternatives for each item.

Treatment of the Data

Two kinds of items appear in Table 3: (1) items where the responses are categorical in nature, and (2) items where the responses have an underlying continuum.

For all items which are categorical in nature, a * appearing after a percentage indicates that the difference between the two percentages is significant at the 5 percent probability level (5 in 100). In the case of items having an underlying continuum, two numbers appear in parentheses after the question, ability, or trait. The first represents the mean for the seniors and the second represents the mean for the graduates. A * after the parentheses indicates the means are significantly different from each other at the 1 percent level of probability. A ** indicates significance at the 5 percent level.

In order to compare the responses of the seniors and graduates, the frequencies of the total group (seniors and graduates) for each response for each item having an underlying continuum



were converted into T (normal scores). 3 In so doing, the mean of the total group in each instance will approximate 50 with a standard deviation equal to 10. These T scores were used with the distribution for the seniors and graduates to obtain the means and to compute the F value using the technique of analysis of variance.

The Results

Although an examination of the results in Table 3 is worth-while, the statements which follow are intended to highlight the comparisons. The statements included in this discourse are those where a significant difference in percentages occurred between the two groups or those where the means differed significantly at the 1 or 5 percent level for items having an underlying continuum.

The following statements may be made in terms of significant differences in percentages:

1. About 63 percent of the 1967 graduates received their most recent formal educational experience, prior to enrollment in the undergraduate college, in high school as contrasted to about 56 percent for the 1972 seniors. About 21 percent of 1972 seniors received this experience in a junior college as contrasted to about 14 percent for the 1967 graduates. Those two statements reflect the impact of the community junior colleges over a five-year period.



Kenneth E. Anderson. A Parametric Method for Processing Categorical Data Having an Underlying Continuum. Unpublished paper, 1972. 7 pp.

- 2. About 89 percent of the 1972 seniors indicated they had had an inspirational teacher in their undergraduate college or university as contrasted to about 86 percent for the 1967 graduates.
- 3. About 40 percent of the 1972 seniors indicated they planned to obtain a Master's degree whereas only about 23 percent of the 1967 graduates actually had obtained the degree.
- 4. About 93 percent of the 1972 seniors felt that the State of Kansas should provide more state aid to support the six colleges or universities as contrasted to about 80 percent for the 1967 graduates.

The following statements may be made in terms of significant differences in means (at the 1 percent or 5 percent level of probability):

- 1. The 1972 seniors were in larger-sized graduating classes than were the 1967 graduates. This reflects the unification of school districts into larger-sized ones about 1966.
- 2. The level of formal education attained by the 1972 seniors' fathers was higher than that for the 1967 graduates.
- 3. The two groups were asked to rate their colleges and universities on a five-point scale from "very inferior" to "superior" for four items. Only one difference turned out to be significant in favor of the 1967 graduates, namely: general education (broadth of learning as opposed to the major area of concentration or study).

- 4. The 1967 graduates rated the library holdings for study in the "major" and in "general education" higher than did the 1972 seniors.
- 5. The 1967 graduates were more satisfied with their undergraduate academic achievement than were the 1972 seniors.
- 6. The two groups were asked to describe the preparation they received at the colleges and universities relative to seventeen items pertaining to competencies, skills, and understandings using a three-point scale (strong, adequate, and weak). Although the means of 1972 seniors were higher than those of the 1967 graduates on 13 of the 17 items, significant differences occurred for seven of the items as follows:
 - A. The 1972 seniors described their preparation as stronger with regard to: (1) total development as an individual, (2) understanding the role that sciences play in creating and solving human problems, (3) understanding the role that social sciences play in creating and solving human problems, (4) gaining a theoretical and factual background and preparation for the world of work, (5) understanding yourself (abilities, interests, values, personality characteristics, goals), (6) developing interpersonal competencies, and (7) developing a personal sense of responsibility for reducing social problems or injustices.

TABLE 3

COMPARISON OF THE RESPONSES OF THE 1972 SENIORS AND THE 1967 GRADUATES TO IDENTICAL ITEMS

	- 4	Perc	entage
It	· · · · · · · · · · · · · · · · · · ·	Seniors	Graduates
1.	Did you graduato from a Kansas high school?		
<u> </u>	1 - Yes 2 - No	79.9 20.1	78.7 21.3
2.	previous question, how many students were in your high school graduating class? (51.28 - 49.14)*.4		
	1 - Under 100 2 - 100 - 199 3 - 200 - 499 4 - 500 - 999 5 - 1,000 and over	33.5 15.4 21.0 24.1 6.0	43.9 14.9 21.9 15.1 4.2
3.	Where did you receive your most recent formal educational experience prior to your enrollment in this college or university?		4.6
	1 - High school 2 - A junior college 3 - A four-year college or	56.2 21.1*,4	63.3*,4 14.4
	university 4 - Some other training school 5 - Military training	17.1 1.0 4.5*	19.3 1.2 1.8
4.	Did you attend a Kansas Community Junior College before entering this college or university?		
	1 - Yes 2 - No	20.7 * .79.3	11.8 87.9*

In item number 2, the mean for the seniors was 51.28 and the mean for the graduates was 49.14. The * indicates that the difference in means was significant at the 1 percent level. In this case, it indicates that the seniors were in larger-sized graduating classes than were the graduates. The mean for the seniors always appears first followed by that for the graduates.

In item number 3, the * indicates that the difference between the two percentages was significant at the 5 percent level. In the first instance, the * indicates that a significantly greater percentage of the graduates when compared with the seniors, received their most recent formal education in high school prior to enrollment in one of the six colleges and universities.



TABLE 3 (continued)

		Percentage	
Item		Seni ors	Graduates
5.	If your answer to question 6 was yes, did you receive an associate of arts or similar two-year degree? 1 - Yes 2 - No	51.9 48.1	48.1 51.9
6.	If you attended a junior college, how would you rate the educational opportunities it offered in regard to preparation for work at this college or university? (49.41 - 51.01) 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good 5 - Superior	4.0 15.0 35.3 36.4 9.2	0.7 10.9 38.7 38.0 11.7
7.	What is the highest level of formal education attained by your father? (50.58 - 49.52)** 1 - Junior high or less 2 - Some high school 3 - High school graduate 4 - Some college 5 - College degree 6 - Postgraduate degree	12.7 8.0 28.8 22.1 18.2 10.3	17.9 10.0 26.3 20.2 14.1 11.5
8.	What is the highest level of formal education attained by your mother? (50.32 - 49.39) 1 - Junior high or less 2 - Some high school 3 - High school graduate 4 - Some college 5 - College degree 6 - Postgraduate degree	7.3 6.3 39.6 26.2 17.3 3.3	11.1 7.5 36.7 25.5 16.8 2.4

TABLE 3 (continued)

~ .			ercentage	
Iter	<u>n</u>	Seniors	Graduates	
9•	What is your average grade in college or university work thus far? (50.27 - 49.95)			
	1 - A or A+	- 4.5	10.1	
	2 - A-	10.9	17.0	
-	3 - B+	15.0	17.5	
	4 - B	18.4	31.6	
	5 - B- 6 - C+	23.1	14.0	
	6 - C+	18.7	2.7	
	7 - C	7.4	1.0	
	8 - D	0.5	1.1	
	9 - I consider this information		•••	
	confidential	1.5	5.2	
10.	Do you feel that your undergraduate college or university and its program has provided you with sufficient opportunities for cultural growth and development?			
	1 - Yes	81.0	84.1	
	2 - No	19.0	15.9	
11.	Do you feel that you have had an inspirational teacher in your undergraduate college or university who was a recognized teacher of excellence in his or her field? 1 - Yes 2 - No	89.4* 10.6	85.7 14.3*	
Rate usin	your undergraduate college or university g the code following each item.	on items 1	2 to 15	
12.	the number of courses available or			
	depth of study available. (50.51 - 49.98)	· ••		
•	49.98) 1 - Very inferior	1.9	1.1	
•	49.98)	1.9 11.0	1.1 7.9	
-	49.98) 1 - Very inferior	11.0	7.9	
•	49.98) 1 - Very inferior 2 - Inferior	11.0 33.1	7.9 39.5	
•	49.98) 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good 5 - Superior	11.0 33.1 32.0	7.9 39.5 37.0	
•	49.98) 1 - Very inferior 2 - Inferior 3 - Good 4 - Very good	11.0 33.1	7.9 39.5	

TABLE 3 (continued)

		Percentage	
Iter	n	Seniors	Graduates
13.	Your major area of study in terms of the quality of education offered. (50.38 - 49.87) 1 - Very inferior	1.9	0.7
	2 - Inferior	10.6	0.7 8.0
	3 - Good 4 - Very good 5 - Superior 6 - I have had too little experience	32.3	41.9
	4 - Very good	35.0	34.6
	5 - Superior	19.8	14.5
	6 - I have had too little experience		.4.2
	to make a judgment	0.3	0.3
14.	Extra-curricular life offered by the institution. (49.85 - 50.52)		
	1 - Very inferior	0.9	0.8
	2 - Inferior	10.1	6.9
	3 - Good 4 - Very good 5 - Superior	36.1	36.0
	4 - Very good	31.0	36.5
	5 - Superior	13.1	11.9
	6 - I have had too little experience to make a judgment	8.8	. 7. 9
15.	General education (breadth of learning as opposed to your major area of concentration or study). (49.39 - 50.93)*		
-	1 - Very inferior	0.7	0.4
	2 - Inferior	6.6	5.2
	3 - Good	50.0	43.7
	3 - Good 4 - Very good	32.2	37.2
-	5 - Superior	8.5	11.9
-	6 - I have had too little experience to make a judgment	1.9	1.6
Answ	er items 16 and 17 using the code following	g each ite	m.
	How would you rate the library holdings in your undergraduate college or university for study in your major? (48.97 - 50.51)*		
	1 - Very adequate	32.3	39.1
	- 1041 ~~04860	J L • 7	37.4
*	2 - Adequate	111 3	44.6

TABLE 3 (continued)

		Percentage	
Item		Seniors	Graduates
17.	How would you rate the library holdings in your undergraduate college or university for study in general education? (48.88 - 50.12)* 1 - Very adequate 2 - Adequate	37.8 47.2	<u>4</u> 3.2 47.1
	3 - Inadequate	15.0	9.7
18.	How satisfied have you been with your academic achievement in your undergraduate college or university? (49.24 - 50.46)*	; •	
-	1 - Thoroughly dissatisfied 2 - More dissatisfied than satisfied 3 - More satisfied than dissatisfied 4 - Thoroughly satisfied	2.7 22.7 56.7 17.9	2.2 18.0 57.3 22.5
19.	Seniors: What is the highest academic degree you intend to obtain? Graduates: Since graduating from your college or university, what additional degrees have you received? Only the degrees		
	common to both groups are listed. 1 - A Master's degree	40.3*	22.9
-	 2 - A Doctor of Philosophy or Doctor of Education degree 3 - Bachelor of Law, Doctor of Law, or Doctor of Juris- 	8.0	2.3
>	prudence 4 - Bachelor of Divinity	3.4 0.2	2.0
Rate or u	the preparation you received at your undeniversity. Use the code following items 2	ergraduate 20 to 36.	colloge
20.	A broad experience in the humanities.	- ,	,
	(50.22 - 49.66) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	20.6 54.1 20.6 4.6	19.7 51.8 24.0 4.5
21.	Competence in the arts of communication. (50.24 - 49.54) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	20.2 55.3 19.9 4.6	16.8 57.0 21.8 4.3

TABLE 3 (continued)

		I'ercent age	
Item		Seni ors	Graduates
22.	Introduction to natural science. (49.65 - 50.26) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	26.5 52.0 14.6 6.9	29.1 51.5 12.9 6.5
23.	Introduction to social science. (50.52 - 49.91) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	25.7 55.5 13.6 5.1	21 .0 59.8 13.4 5.7
24.	Training in laboratory technique. (49.54 - 50.13) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	22.1 32.3 31.5 14.1	22.4 37.6 27.3 12.6
25.	Ability to understand and use mathematical concepts. (50.09 - 50.55) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	21.5 38.6 28.8 11.1	20.8 41.2 24.3 13.7
26.	An awareness of and appreciation for the aesthetic aspects of life. (50.52 - 49.98) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	26.8 43.8 22.7 6.7	20.2 52.0 24.0 7.3
27.	Motivation and ability to work independently. (49.78 - 49.95) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	41.1 42.8 14.8 1.3	38.5 48.4 11.2 1.9

TABLE 3 (continued)

		Percèntage	
Item	1	Seniors	Graduates
28.	Total development as an individual. (50.32 - 49.08)* 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	29.9 52.6 12.9 4.6	20.1 64.9 12.0 3.0
29.	Understanding the role that sciences play in creating and solving human problems. (50.86 - 49.82)** 1 - Strong 2 - Adoquate 3 - Weak 4 - No opinion	26.3 45.7 19.7 8.2	19.0 52.1 20.7 7.9
30.	Understanding the role that social sciences play in creating and solving human problems. (50.94 - 49.73)* 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	26.6 48.1 19.3 6.0	19.6 52.1 21.7 6.6
31.	Gaining a theoretical and factual background as proparation for the world of work. (50.91 - 49.15)* 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	27.0 49.1 19.8 4.1	19.4 50.2 26.1 4.3
32.	Developing skills and competencies which are needed to perform specific jobs. (50.21 - 49.73) 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	26.2 46.6 24.4 2.9	23.1 47.9 25.5 3.5
33.	Developing a sense of professional identification (membership in some professional or occupational group). (50.09 - 50.07) 1 - Strong 2 - Adequato 3 - Weak 4 - No opinion	32.9 38.5 23.5 5.2	31 • 4 41 • 4 22 • 1 5 • 1

			Porcentago	
Iter	n .	Scniors	Graduates	
34.	Understanding yourself (abilities, interests, values, personality characteristics, goals). (50.68 - 48.48)* 1 - Strong	21. 0	22.2	
	2 - Adequate 3 - Weak 4 - No opinion	34.9 47.0 13.6 4.4	22.3 56.4 18.4 2.9	
35.	Developing interpersonal competencies. (50.45 - 49.50)** 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	21.7 58.4 12.2 7.8	17.6 62.0 14.3 6.1	
36.	Developing a personal sense of responsibility for reducing social problems or injustices. (51.26 - 49.06)* 1 - Strong 2 - Adequate 3 - Weak 4 - No opinion	23.0 48.5 21.1 7.4	13.2 51.4 28.1 7.3	
37.	Do you feel that the State of Kansas should provide more state aid to support your college or university? 1 - Yes 2 - No	92.8* 7.2	79.3 20.7*	
38.	If your answer to question 37 was yes, should aid be given by some formula which takes into account the proportion of Kansans of the total enrolled in your college or university? 1 - Yes 2 - No	57.0 43.0	62.0 38.0	
39.	Should the State of Kansas provide special funds to reduce student fees for Kansas residents who can demonstrate financial need? 1 - Yes	82.0	79.7	
	2 - No	18.0	20.3	



IV: Summary

It is apparent from the statements intended to highlight the results in Table 2, that the 1967 graduates in the six state colleges and universities, under the Board of Regents, had more positive than negative reactions to the education and training they had received during the time they had attended these institutions.

Table 3 suggests that the six state colleges and universities, with a few exceptions, did a better job with the 1972 seniors than was the case with the 1967 graduates. This statement must be tempered, however, by the fact that a period of five years had elapsed since many of the graduates had had formal contact with the schools.